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AMENDMENTS TO THE CLAIMS

Claim I (currently amended): A non-human transgenic mouse animal whose genome comprises a first nucleotide sequence encoding human CD20 and a second nucleotide sequence encoding a subunit of a heterologous FcyIII receptor, wherein the first nucleotide sequence is operably linked to an endogenous CD20 promoter, and wherein the second nucleotide sequence is operably linked to an endogenous FcyIII receptor promoter.

Claim 2 (currently amended): The transgenic <u>mouse</u> animal of claim 1 wherein said endogenous CD20 promoter is first nucleotide sequence is operably linked to a human endogenous promoter.

Claim 3 (currently amended): The transgenic <u>mouse</u> animal of claim 2 whose cells express human CD20.

Claim 4 (currently amended): The transgenic mouse animal of claim 3 wherein human CD20 is expressed on the surface of B lymphocytes.

Claim 5 (currently amended): The transgenic <u>mouse</u> animal of claim 2, wherein said endogenous FcyIII receptor promoter is second nucleotide sequence is operably linked to a human endogenous promoter.

Claim 6 (currently amended): The transgenic mouse animal of claim 1 wherein said second nucleotide sequence encodes human CD16 alpha chain subtype A.

Claim 7 (currently amended): The transgenic <u>mouse</u> animal of claim 6 wherein said receptor is expressed on the surface of leucocytes.

Claim 8 (currently amended): The transgenic mouse animal of claim 17 wherein said

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receptor is expressed on the surface of <u>one or more cells selected from the group consisting of a eell-comprising</u> NK cells, macrophages, neutrophils, eosinophils, basophils, mast cells, <u>and or</u> thymocyte cells or mixtures thereof.

Claim 9 (currently amended): The transgenic mouse animal of claim 1 wherein the genome of said mouse animal further comprises a disruption in an endogenous gene encoding a subunit of a receptor substantially homologous to the heterologous FcyIII receptor.

Claim 10 (currently amended): The transgenic mouse animal of claim 9, wherein the endogenous gene encodes a murine CD16 alpha chain.

Claim 11 (withdrawn-currently amended): A method of identifying an agent capable of treating a B cell lymphoma said method comprising:

- a) measuring the level of B lymphocytes expressing human CD20 in a mouse an
 animal of claim 1;
- b) administering said agent to the mouse animal of claim 1; and
- c) measuring the level of B lymphocytes expressing human CD20 in the <u>mouse animal</u>; wherein a decrease in the number of B lymphocytes expressing human CD20 in the <u>mouse animal</u> after treatment with the agent identifies the agent capable of treating a B cell lymphoma.

Claim 12 (withdrawn): An agent identified according to claim 11.

Claim 13 (withdrawn-currently amended): A method of identifying an agent capable of depleting or killing cells expressing human CD20 said method comprising:

- a) measuring the level of B lymphocytes expressing human CD20 in a mouse an animal of claim 1:
- b) administering said agent to the mouse animal of claim 1; and
- measuring the level of B lymphocytes expressing human CD20 in the mouse animal;

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wherein a decrease in the number of B lymphocytes expressing human CD20 in the <u>mouse</u> animal identifies the agent as capable of depleting or killing cells expressing CD20.

Claim 14 (withdrawn): The method of claim 13 wherein said cells are cancer cells.

Claim 15 (withdrawn): An agent identified according to claim 14.

Claim 16 (currently amended): A cell or tissue derived from the transgenic mouse enimal of claim 1.

Claim 17 (cancelled)

Claim 18 (cancelled)

Claim 19 (withdrawn-currently amended): A method of identifying an agent capable of inducing an Fc-mediated effector cell response said method comprising

- measuring the baseline level of one or more cytokines associated with an Fcmediated effector cell response in a transgenic mouse animal of claim 1;
- administering said agent to the transgenic <u>mouse</u> animal;
- c) measuring the level of the cytokines in the <u>mouse animal</u>; wherein an increase in the level of cytokines after administration identifies the agent as capable of inducing an Fc-mediated effector cell response.

Claim 20 (withdrawn-currently amended): A method of identifying an agent capable of inducing an Fe-mediated effector cell response against B lymphocytes expressing human CD20, said method comprising:

 a) measuring the level of B lymphocytes expressing human CD20 in a first transgenic mouse animal: Application No.: 10/537,963 6 Docket No.: 146392000400

- b) administering said agent to the first transgenic mouse animal;
- measuring the level of B lymphocytes expressing human CD20 in the first transgenic mouse animal;
- d) determining the percent reduction in the level of B lymphocytes between step
 (a) and step (c);
- measuring the level of B lymphocytes expressing human CD20 in a second transgenic mouse animal of claim 1;
- administering said agent to the second transgenic mouse animal of claim 1;
- g) measuring the level of B lymphocytes expressing human CD20 in the second transgenic mouse animal; and
- h) determining the percent reduction in the level of B lymphocytes between step
 (e) and step (g);
 wherein if the percent reduction determined in step (h) is greater than the percent reduction determined in step (d), the agent is identified as capable of inducing an Femediated effector cell response against B lymphocytes expressing human CD20.

Claim 21 (withdrawn-currently amended): A method of testing safety of anti-human CD20 therapy, said method comprising:

- a) measuring the level of B lymphocytes expressing human CD20 in a mouse an animal of claim 1:
- b) administering said agent to the mouse animal of claim 1; and
- c) measuring the level of B lymphocytes expressing human CD20 in the mouse animal; wherein a decrease in the number of B lymphocytes expressing human CD20 in the mouse animal identifies the agent as capable of depleting or killing cells expressing CD20;
- d) monitoring monitoring the mouse animal for short or long term adverse effects.

Claim 22 (withdrawn-currently amended): A method of testing efficacy of anti-human CD20 therapy, said method comprising:

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 a) measuring the level of B lymphocytes expressing human CD20 in a set of mice animals of claim 1:

- b) administering to each mouse animal of the set a different dose of an agent; and
- c) measuring the level of B lymphocytes expressing human CD20 in the mouse
- d) determining at least one dose of the agent that results in the most B cell depletion.

Claim 23 (new): The transgenic mouse of claim 1 wherein the first nucleotide sequence is operably linked to a murine endogenous promoter.

Claim 24 (new): The transgenic mouse of claim 1 wherein the second nucleotide sequence is operably linked to a murine endogenous promoter.

Claim 25 (new): The cell or tissue of claim 16 wherein the cell or tissue expresses human CD20.

Claim 26 (new): The cell or tissue of claim 16 wherein the cell or tissue expresses a subunit of human FcyIII receptor.

Claim 27 (new): The transgenic mouse of claim 9 wherein the human CD20 is expressed on the surface of B lymphocytes and human CD16 alpha chain subtype A is expressed on the surface of leucocytes in the transgenic mouse.